Webasto Unite 7.4 kW

Incl. Webasto ChargeConnect

315 mm

135 mm

460 mm
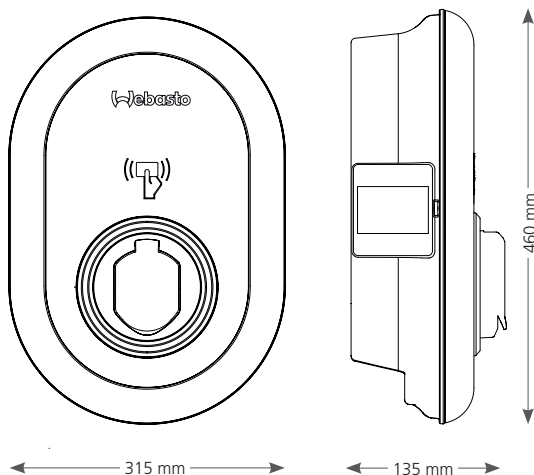
The Webasto Unite boasts the following features:

- Scalable charging capacity up to 7.4 kW
- Charging socket (type 2) for charging cable
- Digital management and remote control with Webasto ChargeConnect (access via portal and app)
- Always online thanks to 24/7 real-time transmission of the wallbox data to Webasto ChargeConnect
- Authentication using RFID technology or Webasto ChargeConnect App
- Interface for Energy Management System (EMS) integration via Modbus TCP[1]
- Integrated local dynamic load management[2] for up to 32 charging points
- Integrated broken PEN protection
- Robust, high-quality housing meeting the Webasto quality and safety standards
- Cost savings at installation due to DC residual current protection
- Secured network stability by network operator using a ripple control receiver
- User friendly configuration using an integrated configuration hotspot and Webasto Charger Setup App or configuration interface for installers

[1] Compatible EMS: see compatability list on our website.
[2] Compatible smart meter: see compatability list on our website.

Technical specifications

Electrical characteristics

Nominal current (A) (configurable connected load values)	Up to 32 Single phase 10, 13, 16, 20, 25, 30, 32 A (configurable via DIP-switches) or in 1 A steps (via integrated WebUI or Webasto Charger Setup App)
Line voltage (V AC)	230 (Europe)
Grid frequency (Hz)	50/60
Grid forms	TN-C-S (single phase)
EMC class	Emitted interference: class B (residential, business, commercial areas) Immunity: residential, business, commercial and industrial areas
Overvoltage category	III as per EN 60664
Protection class	I
Necessary protective equipment	Residual current circuit breaker RCD type A and miniature circuit breakers must be provided on the installation side
Integrated protective equipment	≥6 mA DC residual current protection
Integrated Energy Meter	Integrated on board metering (non revenue grade metering)
Welded relais detection	230 V contact to trigger an external shunt trip

Connections

Mounting	Wall and pole mounting (permanently connected)
Cable feed	Mounted on-wall or in-wall
Connection cross-section (wire dimension)	Cross-section of the connecting cable (Cu) taking into account the local conditions and norms: – rigid (min. – max.) 2.5 – 10 mm²; – flexible (min. – max.) 2.5 – 10 mm²; – flexible (min. – max.) with wire end ferrules: 2.5 – 10 mm²
Charging Outlet	IEC 62196 Type-2 socket outlet without shutter
Output voltage (V AC)	230
Max. charging capacity (kW)	7.4 (1-phase operation)

Communication & features

Backend	Webasto ChargeConnect
Authentication	– "Scan & Charge" via QR code – Webasto ChargeConnect Portal – Webasto ChargeConnect App – RFID reader (ISO 14443 A/B and ISO 15693)
Display	RGB-LED
Network interfaces	– LAN (RJ45) – 10/100 Mbps – WiFi 802.11a/b/g/n/ac - 2,4 GHz and 5 GHz
Communication protocols	OCPP 1.6 J (OCPP 2.0 ready), Modbus TCP (EMS)[1], Modbus RTU (smart meter)[2]
External interfaces	– Addressable via ripple control receiver through dry contacts – Integration into Energy Management Systems (EMS) via Modbus TCP[1] – Contact for welded relay protection – RS485 interface for external smart meters[2]
Local load management	– Dynamic (stand-alone) via integration of a compatible external smart meter[2] – Dynamic (cluster with up to 32 charging points) via integration of a compatible external smart meter[2] – Static (cluster with up to 32 charging points)

Mechanical data

Dimensions (W × H × D) (mm)	315 x 460 x 135
Weight (kg)	5
IP protection class, device	IP54
Protection against mechanical impact	IK10

Ambient conditions

Installation site	No direct solar radiation
Operating temperature range (°C)	-35 to +55
Temperature behavior	A reduction in charging current or shutdown may occur in order to prevent the charging station overheating.
Storage temperature range (°C)	-40 to +80
Permissible relative humidity (%)	5 to 95 non-condensing
Altitude (m)	Max. 4.000 above sea level

Certification compatibility

Standards and guidelines	– CE conformity – 2014/53/EU Radio Equipment Directive – 2011/65/EU RoHS Directive – 2012/19/EU Waste Electrical and Electronic Equipment Directive – 1907/2006 REACH Regulation – TN system installation and broken PEN protection according to regulation 722.411.4.1 – BS 7671:2018+A1:2020[3]

[1] Compatible EMS: see compatability list on our website.   [2] Compatible smart meter: see compatability list on our website.
[3] In the following conditions and circumstances: In case of any conflict between the requirements of BS 7671:2018+A1:2020 and EN IEC 61851-1:2019, BS 7671:2018+A1:2020 is applied in the product design.

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